

Abstract of the Disclosure

A computer apparatus for receiving a removable communication card such as a radio card or a modem card. A radio or modem is self-contained inside a housing of the communication card and has an electrical interface for communicating information to and from the computer apparatus. The computer apparatus receives the communication card such that it engages the electrical interface. These contacts automatically connect the communication card to an appropriate antenna, telephone or telephone line. A radio communication card is connected to the appropriate antenna for the type and frequency of the radio. A modem card is connected to a standard telephone line, a cellular phone, or an antenna for a cellular phone if the cellular phone is also disposed within the housing of the modem communication card. Additionally, a switching matrix can be used to connect one set of contacts on a radio card or a modem card to one or more of a plurality of antennas and telephone lines. A computer device utilizing an antenna cap which covers the opening into which the radio has been inserted is also shown. Antenna contacts are disposed on the cap to engage the antenna contacts positioned on the end of the radio card. At least one antenna is operably connected to the radio card through the cap. A band is used to attach the cap to the housing of the computer device. The antenna or antennas are embedded in the cap, in the band, or embedded in or attached to the housing of the computer device. Positioning two similar antennas in different position creates an antenna diversity scheme. Shielding can be added to the cap to help reduce the escape of electronic noise. A micro shield ribbon can be used to connect the antenna and the antenna contacts on the cap.